

**Young Scientist Awards**

**JUDGING RUBRIC: STANSW Scientific Investigation, Years 5-6**

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| Level | Description |
| 5 | The student has provided clear and convincing evidence that he/she:* completed a **well-planned** scientific investigation that incorporated **fair testing**
* had shown **originality** in the idea and **creativity** in the investigative methods
* had a **good understanding** of the science concepts related to the investigation
* **gathered relevant** background information and made **reasoned** **predictions**
* **carefully selected** materials and equipment
* **accurately** gathered experimental data in an **appropriate number of trials**
* **systematically** recorded data, including the **correct use of units**
* analysed data, suggesting **plausible** explanations for the results
* made **valid** conclusions and suggested **useful applications**
* documented **each stage** of the investigative method in a log book
* **acknowledged** **all** assistance given
* used effective **communication skills** taking intoaccount,purpose and audience
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| 4 | The student has provided substantial evidence that he/she:* completed a **planned** scientific investigation that incorporated **some** fair testing
* demonstrated **some innovative** or creative aspects
* had **reasonable** understanding of the related science concepts
* performed **some relevant** background research and made an **appropriate prediction**
* selected **suitable** materials and equipment
* collected **meaningful** and **sufficient** data
* **correctly** recorded data
* **discussed** possible reasons for the results
* analysed data and came to a **valid** conclusion
* included a log book **detailing** the different stages of the investigation process
* **acknowledged** **any** assistance given
* used **effective** language and formatting to communicate with the intended audience
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| 3 | The student has provided evidence that he/she:* completed a scientific investigation that contained **elements** of fair testing
* had shown **glimpses** of innovation or creativity
* demonstrated an **understanding** of the science concepts used in the investigation
* collectedbackground research with **some relevance** to the subject of investigation
* made some form of a **prediction**
* **used** suitable equipment
* collected and recorded **first-hand** data
* proposed **sound** explanations for the data collected
* provided **supporting** documentation in the accompanying log book
* **acknowledged some** of theassistance that was given
* used **appropriate** language to communicate with the intended audience
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| Level | Description |
| 2 | The student has provided evidence that he/she:* completed a scientific investigation with **limited evidence of fair testing**
* set the investigation in **some sort** of scientific context
* collected **fragments** of background research
* attempted to make a **prediction**
* gathered data but was unable to **clearly** present it
* offered **sketchy** explanations for the data collected
* presented a logbook that was either **fragmented** or **too brief**
* **informally** mentionedassistance given
* used language and formatting that **did not connect** with the intended audience
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| 1 | The student has provided evidence that he/she:* attempted an investigation with a **lack of understanding** of fair testing
* had **inadequate** understanding of the related science concepts
* **failed** to gather first-hand data
* offered explanations for results that could not be **experimentally** supported
* **did not maintain** a suitable log book
* **failed to acknowledge** assistance given
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